

Abstract

An active material for positive electrode for a non-aqueous electrolyte secondary battery comprises a lithium-metal composite oxide that is expressed by the general formula of  $\text{Li}_x (\text{Ni}_{1-y}\text{Co}_y)_{1-z}\text{M}_z\text{O}_2$  (where  $0.98 \leq x \leq 1.10$ ,  $0.05 \leq y \leq 0.4$ ,  $0.01 \leq z \leq 0.2$ , and where M is at least one metal element selected from the group of Al, Mg, Mn, Ti, Fe, Cu, Zn and Ga), and where the  $\text{SO}_4$  ion content is in the range from 0.4 weight % to 2.5 weight %, and the occupancy rate of lithium found from the X-ray diffraction chart and using Rietveld analysis is 98% or greater, and the carbon amount measured by way of the high frequency heating-infrared adsorption method is 0.12 weight % or less, and that the Karl Fischer water content due to heating at  $180^\circ\text{C}$  be 0.2 weight % or less.